

# PROCEEDINGS OF THE ROYAL ENTOMOLOGICAL SOCIETY OF LONDON

## SERIES C. JOURNAL OF MEETINGS

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### ORDINARY MEETING

WEDNESDAY, 18th JANUARY, 1961, at 5.30 p.m. (Tea 5 p.m.)

#### AGENDA

1. Confirmation of the Proceedings of the Ordinary Meeting held on 7th December, 1960.
2. Recommendations of candidates for Fellowship. First reading.
3. Recommendations of candidates for Fellowship. Second reading.
4. Announcement of election of new Fellows.
5. Additions to the Library [see p. 36].
6. Nomination of Officers and Council for 1961. Second reading.
7. Admission of Fellows.
8. Exhibits.
9. Communications.

#### The Nature Conservancy

It is felt that Fellows of the Society would welcome another opportunity of learning more of the aims and achievements of the Nature Conservancy, particularly in regard to their entomological aspect. Dr. E. A. G. Duffey, Regional Officer for East Anglia, and Mr. M. V. Brian, of the Furzebrook Research Station, have kindly agreed to speak on the following subjects:

(1) **Dr. E. A. G. Duffey** (a visitor).—Aims and achievements of reserve management at Wood Walton Fen.

(2) **Mr. M. V. Brian** (a visitor).—The use of Nature Reserves for research.

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#### NOTICES

The **Annual Meeting** will be held on *Wednesday, 1st February, 1961, at 5.30 p.m.*

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PROCEEDINGS OF THE ORDINARY MEETING HELD ON 7TH DECEMBER, 1960

Dr. B. P. UVAROV, C.M.G., F.R.S., President, in the Chair.

Present, 103 Fellows and 34 Visitors.

The minutes of the Ordinary Meeting held on 2nd November were confirmed and signed by the President.

The names of the following candidates for election were read for the first time : Miss Sheila Joan Brydon ; Mr. David Ellis Evans ; Mr. Keith Geoffrey Goodyear ; Mr. Ayodhya Prasad Gupta ; Mr. John Peter Leader ; Mr. David Cecil Richard Lincoln ; Mr. David James de Bar Lyon, B.Sc. ; Mr. Herman Auguste Mould, B.A. ; Mr. Adrian Charles Pont ; and Mr. Nigel Boyd Potter.

For the second time (taken as read) : Mr. Peter James Baker ; Mr. Francis George Browne ; Mr. Peter Thomas Cumming ; Mr. Eric William Groves ; Miss Valerie Healey, B.Sc. ; Mr. Abdul Rashid Mir ; Mr. Henry John Dickinson, B.Sc. ; and Dr. Adrianus Berty Stam, Ph.D.

The Secretary read the names of the following newly elected Fellows of the Society : Mr. Richard Robinson Askew, B.Sc., Department of Zoology, University of Manchester, Manchester, 13 ; Mr. John Nafford Brady, B.A., c/o Austins, Warner's Hill, Cookham Dean, Berks. ; Dr. Moshe Calderon, M.Sc., Ph.D., Maoz Aviv 10/4, Tel-Aviv, Israel ; Mr. Michael John Cotton, B.Sc., Hope Department of Entomology, University Museum, Oxford ; Mr. Patrick Stuart Dale, Massey Agricultural College, Palmerston North, New Zealand ; Mr. Kenneth Charles Durrant, 31 Sandy Lane, East Dereham, Norfolk ; Mr. Keith Murray Harris, Regional Research Station, Ministry of Agriculture, Sammo, Zaria, Northern Nigeria ; Mr. Leonard Hill, B.Sc., Department of Zoology, The University, Sheffield, 10 ; Mr. Ting-Huan Hsiao, Department of Entomology and Economic Zoology, University of Minnesota, St. Paul 1, Minnesota, U.S.A. ; Mr. David Jacques, "Bredon", Grosvenor Road, Godalming, Surrey ; Dr. Eugeniusz Judenko, Ph.D., Tea Research Institute, Millawitiya Estate, Ratnapura, Ceylon ; Mr. John Alexander MacGregor, 406 Amulree Street, Sandyhills, Glasgow, E.2 ; Mr. Mohd Shafi Malik, B.A., c/o Director of Plant Protection, Block 52, Pakistan Secretariat, Karachi, 3, Pakistan ; Dr. Gregory Joseph Peakin, Department of Biology, Goldsmiths' College, Lewisham Way, London, S.E.14 ; Mr. Walter Petana, West African Institute for Trypanosomiasis Research, Kaduna, Nigeria ; Mr. Ezekiel Rivnay, Agricultural Research Station, Rehovoth, Israel ; Dr. Basil John Shepstone, D.Sc., Exeter College, Oxford ; Mr. Yow Cheong Siew, M.Sc., Department of Zoology, Imperial College, Prince Consort Road, London, S.W.7 ; and Mrs. Molly Thomas, "Mada-parambu", Parur, (Via Alwaye), Kerala State, India.

Thanks were voted to donors of gifts to the Library since the last meeting.

The Secretary read for the first time the following names of Fellows nominated by the Council to serve as Officers and Council for 1961 :

*President* : Professor G. C. Varley  
*Treasurer* : Dr. C. G. Butler  
*Secretary* : Dr. Paul Freeman  
*Editor* : Mr. W. H. Potts

*Other Members of Council :*

Mr. R. B. Benson  
 Professor D. S. Bertram  
 Dr. K. U. Clarke  
 Dr. M. I. Crichton  
 Mr. R. G. Davies  
 Dr. A. M. Easton  
 Dr. J. E. Harker  
 Dr. P. T. Haskell  
 Dr. N. E. Hickin  
 Dr. B. R. Laurence  
 Mr. H. Oldroyd  
 Dr. B. P. Uvarov, C.M.G., F.R.S.  
 Mr. M. J. Way

Alternative nominations, supported by four properly qualified Fellows of the Society, should reach the Secretary before the meeting to be held on 18th January, 1961.



Miss M. Gratwick, Mr. M. Calderon and Mr. Yow Cheong Siew signed the Obligation Book and were admitted Fellows of the Society.

The following papers, accepted for publication in the *Transactions*, were read in title :

"Entomological studies on a high tower in Mpanga Forest, Uganda," by A. J. Haddow and others.

"The biology of *Anthocoris sarothamni* Douglas and Scott in Scotland (Hemiptera : Cimicidae)," by A. R. Hill.

"Diurnal variation in the emergence rate of some aquatic insects," by N. C. Morgan and A. B. Waddell. [Communicated by Dr. Paul Freeman.]

"Defensive odours and Müllerian mimicry among insects," by Miriam Rothschild.

"The comparative morphology of the insect ovipositor," by G. G. E. Scudder.

"A synopsis of the Oriental Agromyzidae (Diptera)," by K. A. Spencer.

"The *Trichadenotecnum* group (Psocoptera : Psocidae) in Hong Kong, with descriptions of new species," by I. W. B. Thornton.

**Mr. P. F. Mattingly** exhibited two sets of photographs sent to him from the Rocky Mountain Laboratory, Hamilton, Montana, and the Entomological Research Center, Vero Beach, Florida. The first showed natural hibernation sites of *Culex tarsalis* Coquillett, the main vector of western equine encephalitis. These are shared with garter snakes, which are infectible by the bite of the mosquito and circulate virus in high titer and for long periods. The second, taken by electronic flash, showed the mass emergence and exodus flight of a swarm of *Aedes taeniorhynchus* Wiedemann, estimated to number about 50 million. Previous experiments, involving the dispersal of about one and a half million mosquitoes marked with radiophosphorus, had resulted in recaptures up to 25 miles from the point of dispersal.

**Mr. F. Wilson** introduced a colour film on the biological control of insects, produced by the Commonwealth Scientific and Industrial Research Organisation, Canberra.

At the close of the film Mr. W. H. Potts asked if there had been any case of successful control by the fostering of a native parasite of an indigenous pest. Mr. Wilson replied that he did not know of any—certainly there was no outstanding example.

**Mr. W. H. Potts** introduced a film on the biology and control of tsetse flies, made by Dr. P. E. Glover and his colleagues of the Tsetse Control Sub-Department of the Veterinary Department of Kenya.

A short discussion followed in which Mr. Potts said, in reply to an inquiry, that the insecticide used in controlling tsetse was dieldrin, spread by pressure sprayers along the vegetation bordering river and stream banks. It had resulted in the complete elimination of the fly from whole river systems. Similar methods were also being applied with success in West Africa.

Mr. C. N. Hawkins asked if it was a fact that female tsetse flies paired only once, and how it would affect the success of the operation if they did so more than once. Mr. Potts replied that they were formerly thought to mate only once ; this was probably generally true, and it had been his experience that it was only with the greatest difficulty that females could be induced to pair a second time in the laboratory after they had been inseminated, although recent observations suggest that they may do so in the field. Spermatozoa are present in irradiated males, but they are so affected by the gamma rays that they do not fertilise eggs. Females would not accept a second pairing with irradiated males, any more readily than with untreated males.

Mrs. Richardson having enquired how the sexes were sorted before distribution of the irradiated male pupae, Mr. Potts said that both sexes emerging from irradiated pupae were sterile, so that it was not necessary to sex the pupae before they were released.

PAUL FREEMAN, *Honorary Secretary.*

## ADDITIONS TO THE LIBRARY

*Presented*

- Jewett, S. G., Jr. *The stone flies (Plecoptera) of California*. [Bull. Calif. Insect Survey 6: 125-77, 1960.] [The Publishers.]
- Menke, A. S. *A taxonomic study of the genus Abedus Stål*. [Univ. Calif. Publ. Ent. 16: 393-440, 1960.] [The Publishers.]
- Murray, A. *Monograph of the family Nitidulariae*. 4to. London: Linnean Society, 1864. [Mr. C. M. Gimingham.]
- Urquhart, F. A. *The Monarch Butterfly*. 8vo. University of Toronto Press, 1960. [Oxford University Press.]

*Purchased*

- Le Pelley, R. H. (compiler). *Agricultural insects of East Africa*. 8vo. Kenya: East African High Commission, 1959.
- Lindner, E. *Die Fliegen der palaearktischen Region*. Lief. 211-2. 4to. Stuttgart, 1960.
- Müller, A. H. *Lehrbuch der Paläozoologie*. Band II. Invertebraten. Teil 2. Mollusca 2. Arthropoda 1. 8vo. Jena: Fischer Verlag, 1960.
- Robert, P.-A. *Les libellules (Odonates)*. 8vo. Paris: Delachaux and Niestlé, [1959].

In addition separates have been presented by The Hon. Miriam Rothschild; Professor T. Jaczewski; Anti-Locust Research Centre; American Entomological Society; United States National Museum; Dr. J. E. Treherne; Dr. T. A. M. Nash; Miss E. N. Marks; Dr. A. Neboiss; Mr. I. F. B. Common; Museu Nacional, Universidade do Brasil; Smithsonian Institution; Central Veterinary Laboratory, Weybridge; Mr. F. Wilson; Department of Agriculture Research Station, Winnipeg; Dr. E. J. Popham; Mr. K. A. Spencer; Mr. B. Jobling; Miss A. Løken; Mr. M. S. Shaw; Dr. C. A. Edwards; Mr. R. M. Gambles; and Queensland Institute for Medical Research.